

# 2012 Central Valley Flood Protection Plan Refinement

**Orientation Briefing for  
State-Led Basin-wide Feasibility Studies and  
Central Valley Flood System Conservation Strategy**

**March 19 & 21 - 2013 Webinar**

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**ENVIRONMENTAL STEWARDSHIP**

**ECONOMIC STABILITY**

# Welcome and Introductions



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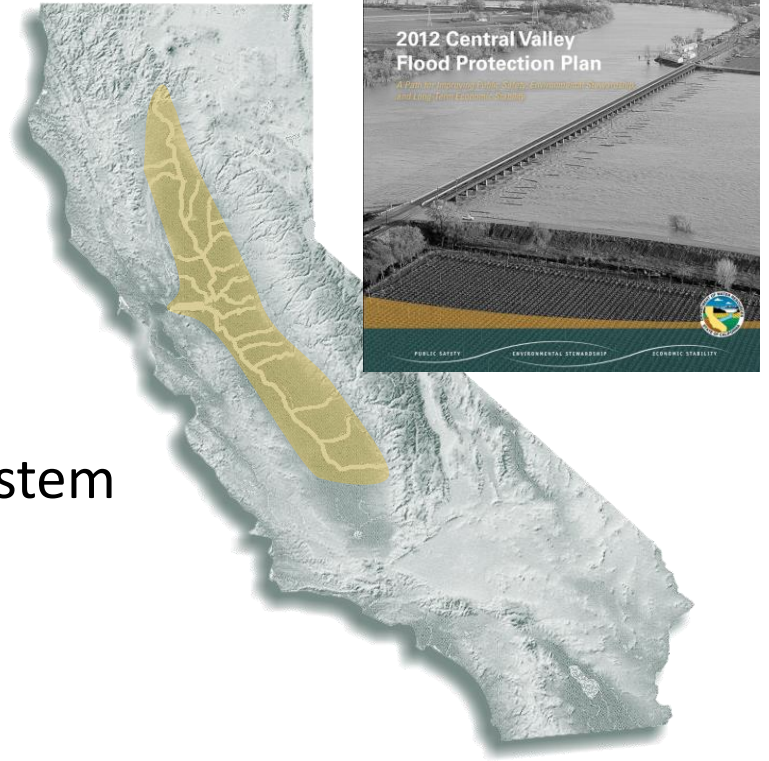
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# Agenda

- Overview and Background
- Scope and approach for the Basin-Wide Feasibility Studies
- Scope and approach for the Central Valley Flood System Conservation Strategy
- Integration with Ongoing Planning Efforts
- Communications and Engagement
- Next Steps

# Central Valley Flood Protection Plan

- Adopted by the Central Valley Flood Protection Board in June 2012
- Focuses on lands protected by facilities of the State Plan of Flood Control
- Establishes State policies and guidance
- Provides a framework for future State investments to modernize the flood system
- Integrates environmental conservation
- Updated every five years

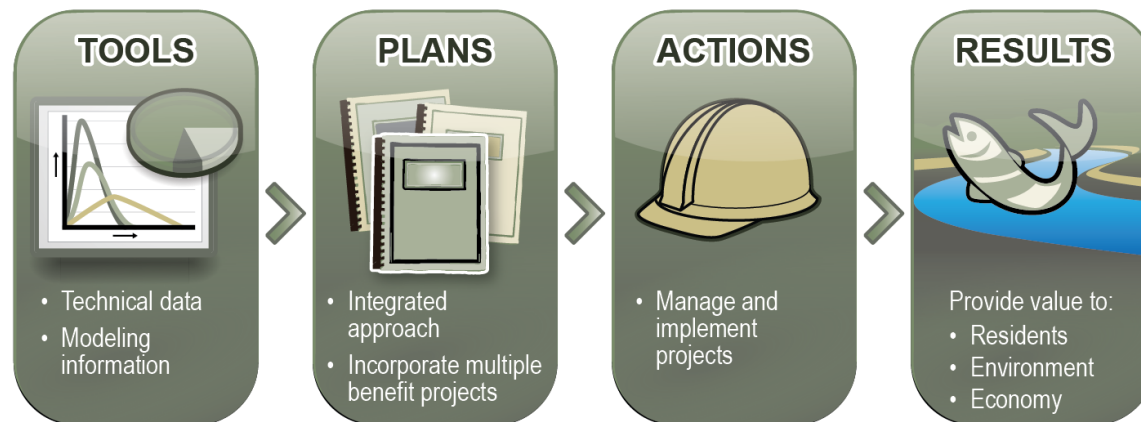


# Integrated Water Management Approach

- DWR is using an Integrated Water Management (IWM) approach to implement FloodSAFE

*Coordinate the development and management of water-related resources to maximize public safety, economic stability, and environmental stewardship*

- IWM approach consists of four steps in project development and implementation



# FloodSAFE Implementation Programs

Flood System Risk Assessment, Engineering and Feasibility



Flood Management Planning

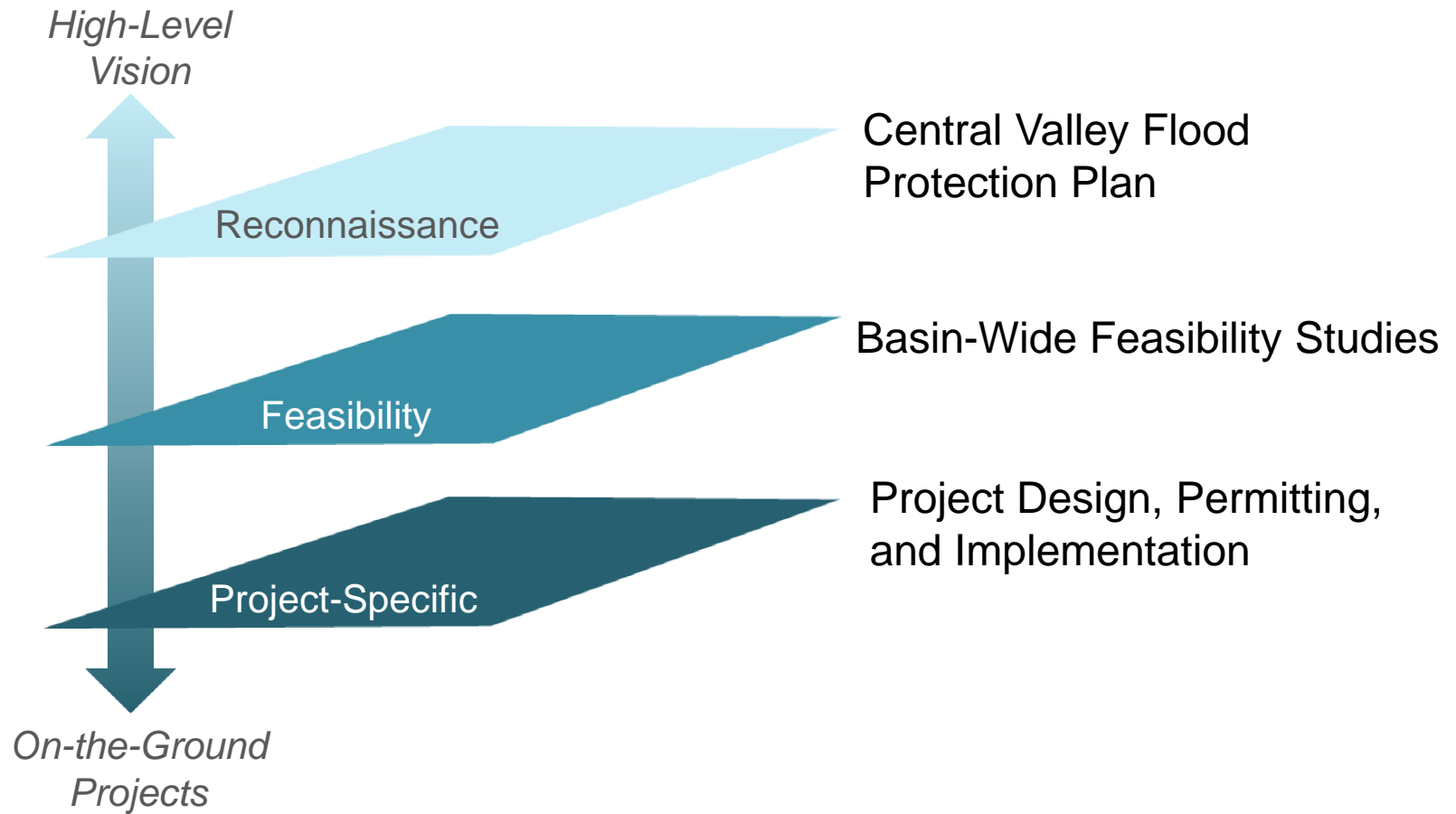
Floodplain Risk Management

Flood Risk Reduction Projects

Flood System Operations and Maintenance

Flood Emergency Response Program

# Level of Detail of Implementation Activities





# Post-Adoption Planning Activities

DWR's post-adoption *planning* activities will refine and set the stage for long-term implementation of the State Systemwide Investment Approach described in the 2012 CVFPP

**Basin-Wide Feasibility Studies**  
Sacramento and San Joaquin River Basins

*Focus on refining physical improvements to the State Plan of Flood Control, identifying State priorities and interests*

**Central Valley Flood System  
Conservation Strategy**

*Focus on systemwide strategies to support CVFPP implementation and advancement of ecosystem goals*

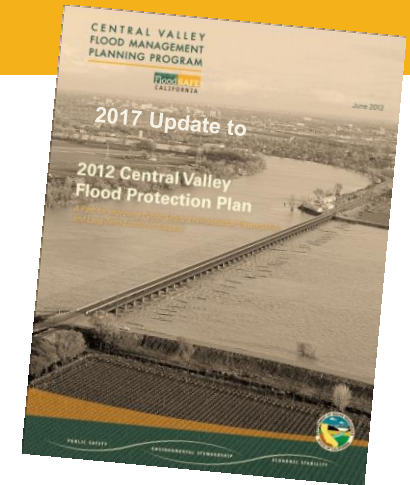
**Locally-led Regional Flood  
Management Planning**

*Focus on identifying local /regional improvement priorities and funding capabilities*



# 2017 Update to CVFPP

- Include information from regional and basin-wide planning activities
- Reflect accomplishments of CVFPP implementation efforts to date
- Identify flood management improvements to be made in the subsequent five-year cycle
- Updates to accompanying documents
  - State Plan of Flood Control Descriptive Document and Flood Control System Status Report
  - FloodSAFE Financing Plan
  - Environmental documentation, as necessary



# Basin-Wide Feasibility Studies

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# State Systemwide Investment Approach

➤ **Regional Improvements**

➤ **System Improvements**

➤ **Residual Risk Management**

Environmental  
Conservation

# State Systemwide Investment Approach

Achieve a ***flexible, resilient, and sustainable*** flood management system in the Central Valley

- ***Flexibility*** is the ability of the flood management system to adapt to changing conditions, such as changing hydrologic, social, political, regulatory, or ecologic conditions
- ***Resiliency*** is the ability of the flood management system to continue to provide benefits and recover quickly after damaging floods
- ***Sustainability*** refers to a system that is socially, environmentally, and financially sustainable for an enduring period

# Geographic Scope of Studies

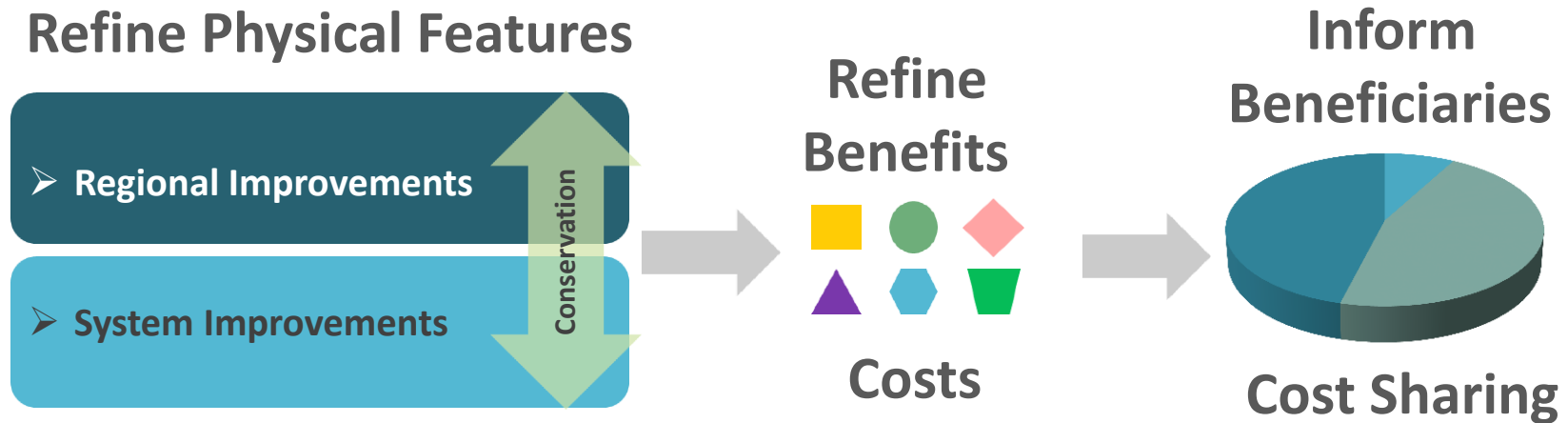
DWR is launching two Basin-Wide Feasibility Studies (BWFS) to refine the physical improvements broadly described in the 2012 CVFPP



● **Sacramento River Basin**

● **San Joaquin River Basin**

# BWFS Purpose



# BWFS Uses and Outcomes

- Identify the State's role in implementing the SSIA
- Identify elements of the SSIA for further development in ongoing (or future) federal cost-share feasibility studies
- Inform continued implementation of actions described in the CVFPP
- Inform the 2017 CVFPP Update and FloodSAFE Financing Plan



# BWFS Development

*Continuous integration with Conservation Strategy development*

## Phase 1

Study  
Initiation

Identify Basin  
Problems, Objectives  
& System  
Improvement  
Features

## Phase 2

Formulate  
Alternative  
Options

Identify  
Preferred  
Option



Public Draft  
BWFS Report

Public  
Comments  
and Revisions



Final  
BWFS  
Report

*Integration with Regional Flood  
Management Plans*

# BWFS Planning Objectives

## 2012 CVFPP Goals

CENTRAL VALLEY  
FLOOD MANAGEMENT  
PLANNING PROGRAM

### CVFPP Primary Goal:

- Improve Flood Risk Management

2012 Central Valley

### CVFPP Supporting Goals:

- Improve Operations and Maintenance
- Promote Ecosystem Functions
- Improve Institutional Support
- Promote Multi-Benefit Projects

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## Basin-Wide Feasibility Study Planning Objectives

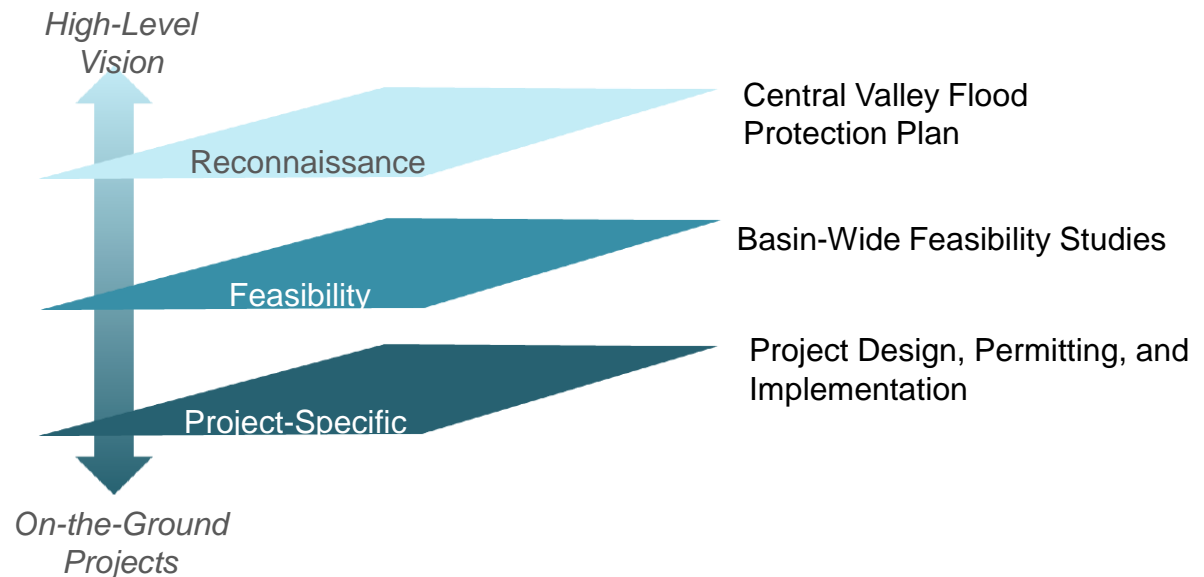
Developing objectives to achieve the primary CVFPP Goal, consistent with the State Systemwide Investment Approach:

- Provide an urban level of flood protection for urban/urbanizing areas
- Protect small communities
- Improve flood protection for rural-agricultural areas
- Improve flood system flexibility
- Improve flood system resiliency
- Promote wise management of SPFC floodplains

In pursuing the primary CVFPP Goal, integrate opportunities to achieve the supporting CVFPP Goals

# BWFS Technical Analyses

- Refined configurations and costs for system elements
- Systemwide analysis of benefits and costs
- Utilize new data, tools, and analytical frameworks (ongoing)



# Clarifying Questions? (submit online)

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# Conservation Strategy

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# Overview of Conservation Strategy

- Supports implementation of the CVFPP
- Long-term strategic plan for improving environmental conditions within the flood management system
- Conservation actions integrated with flood management planning



# Central Valley Flood Protection Act of 2008

## Achieve multiple objectives

Reduce risk to  
life and safety

Reduce  
damages from  
floods

Reduce O&M  
requirements

Promote  
natural river  
processes

Increase and  
improve  
habitat

Expand flood  
system  
capacity



# 2012 CVFPP Goals

## Central Valley Flood Protection Act of 2008

### Natural Processes

- Promote natural dynamic hydrologic and geomorphic processes

### Habitats

- Increase and improve habitat quantity, diversity, and connectivity

### Species

- Promote the recovery and stability of native species populations

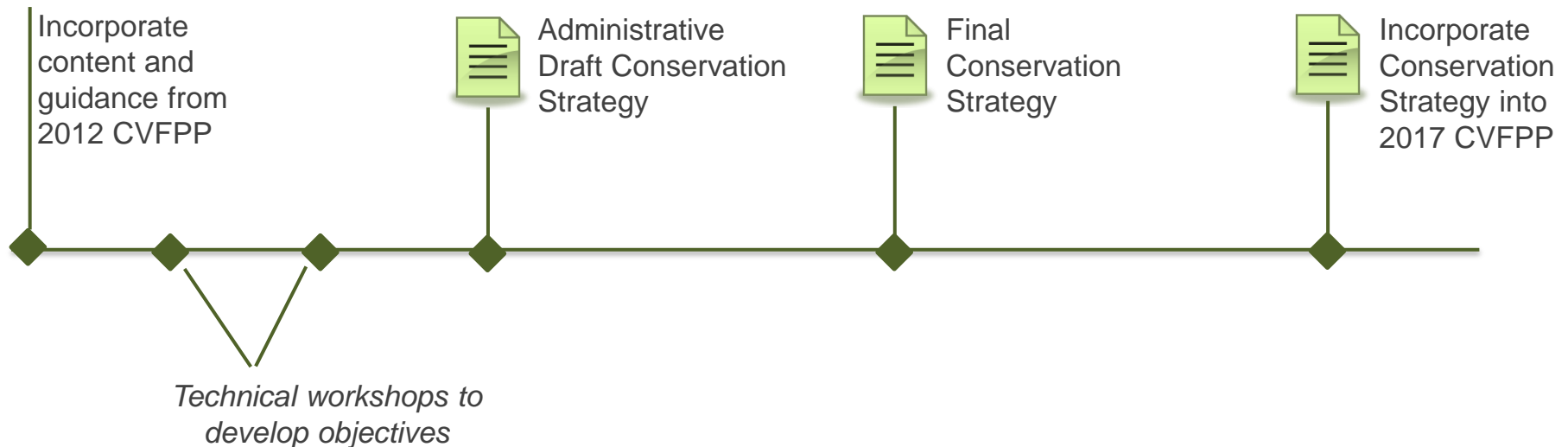
## 2012 CVFPP Goals

1. Improve Flood Risk Management
2. Improve Operations and Maintenance
3. **Promote Ecosystem Functions**
4. Improve Institutional Support
5. Promote Multi-Benefit Projects

# Conservation Strategy Development

*Continuous integration with BWFS development*

*Input/participation from resource and regulatory agencies*



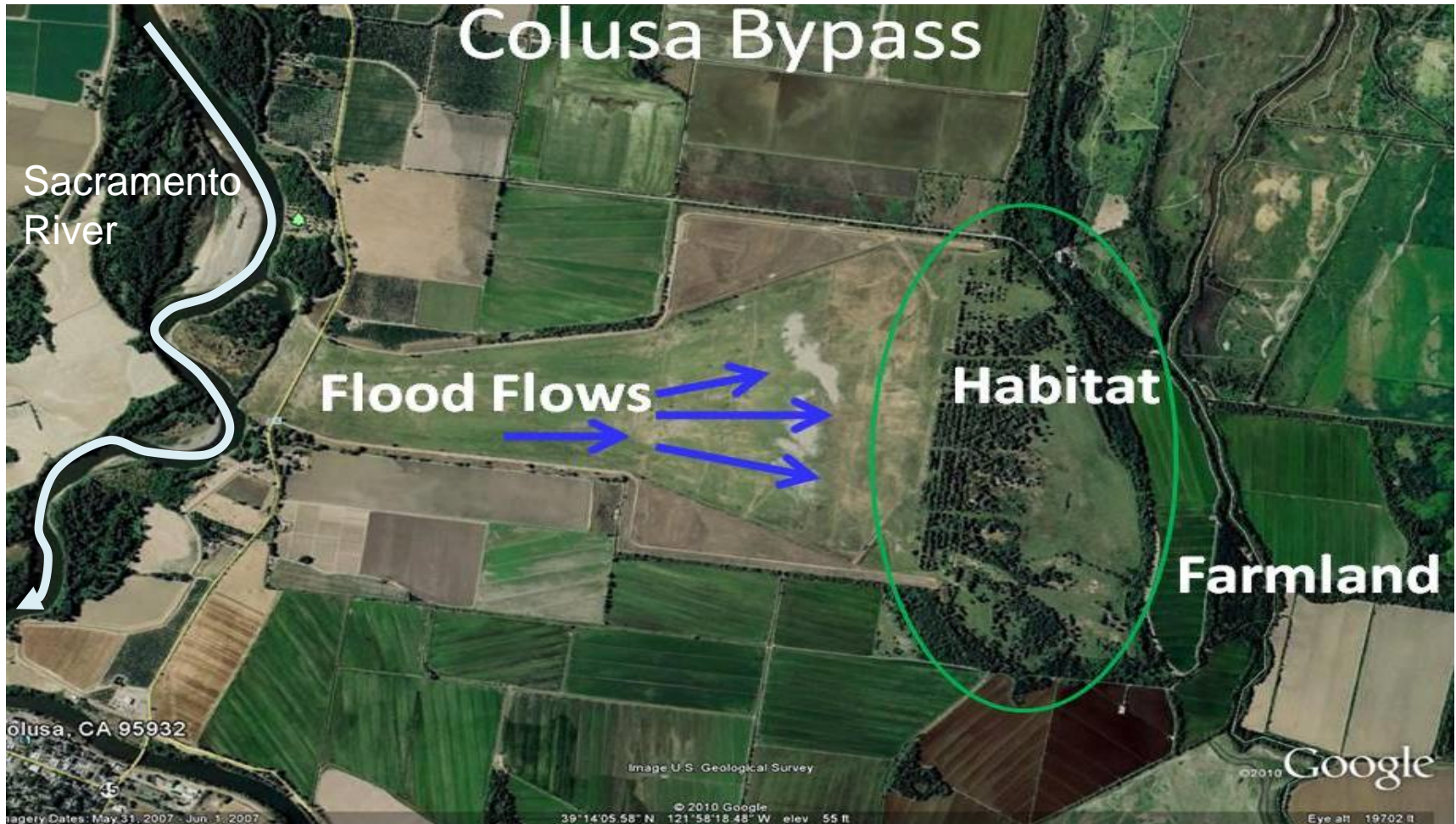
# Conservation Strategy Goals

- Achieve CVFP Act environmental objectives
  - Promote natural dynamic hydrologic and geomorphic processes
  - Increase and improve habitat quantity, diversity, and connectivity
  - Promote the recovery and stability of native species populations
- Increase support and collaboration for multi-benefit projects
- Increase quality of environmental information and tools for decision-making

# Conservation Strategy Seeks to

- Clarify importance and need of incorporating environmental improvements into flood management activities
- Focus on providing physical environmental improvements that also benefit the flood management system
- Provide goals and measurable objectives that can be used to monitor progress
- Describe management actions for integrating conservation into multi-benefit projects
- Use an adaptive management–based approach to implementation

# Integrated Flood Management Example





# How CS Will Support Flood Management Planning

- Provide ecosystem resiliency and sustainability
- Facilitate a permitting mechanism for flood projects
- Reduce O&M over time
- Increase capacity to accommodate climate change
- Reduce conflicts over time

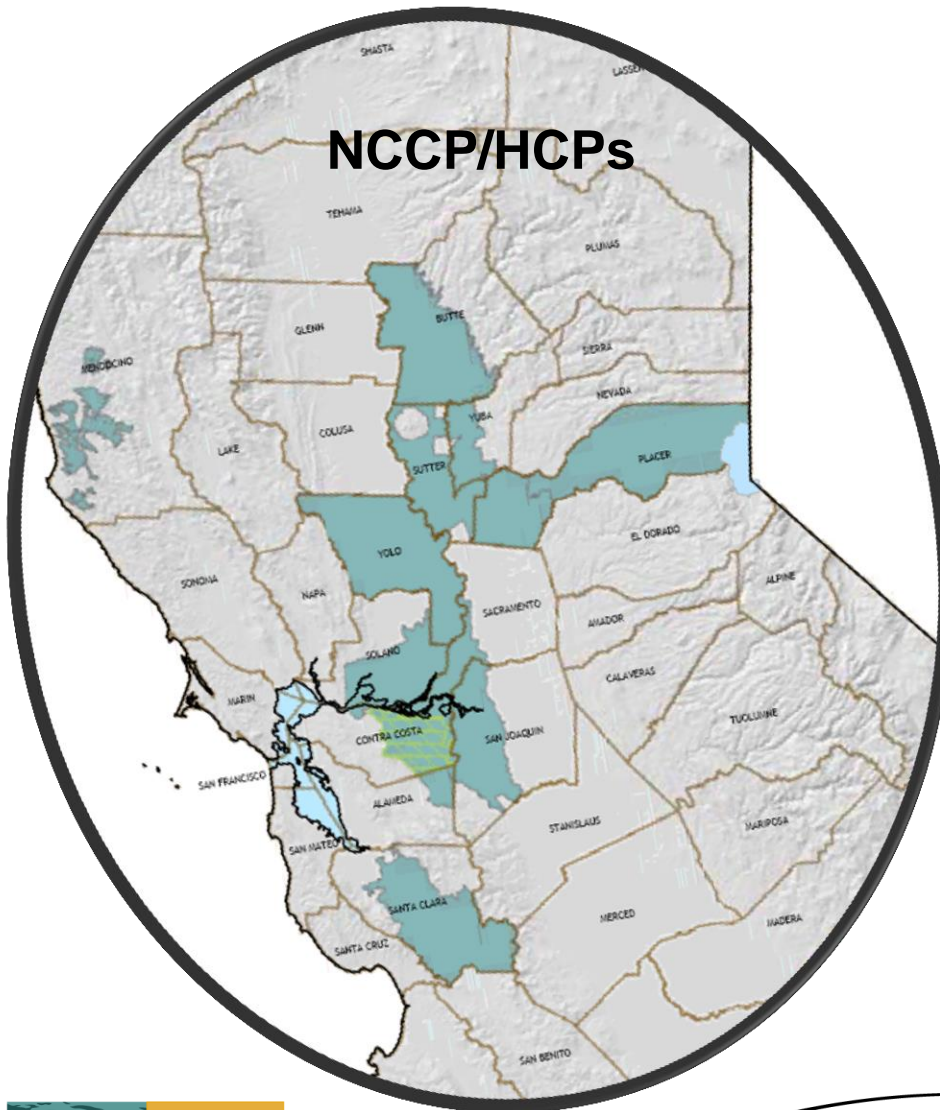


# Conservation Strategy Technical Analyses

- Improving data and analyses to support integrated flood management planning
  - Floodplain restoration suitability
  - Priorities for improving fish passage
  - Fine-scale vegetation map data
- Developing permitting approaches to improve project delivery
- Developing approaches to integrate and promote agricultural stewardship



# Overlapping Conservation Plans



- Regional Habitat Conservation Plans (HCP) & Natural Community Conservation Plans (NCCP)
- Long-Term Central Valley Operations Criteria and Plan
- Central Valley Project Improvement Act programs
- Joint Venture Plans
- USFWS refuge and CDFW land management plans
- Threatened and endangered species recovery plans

# Clarifying Questions? (submit online)

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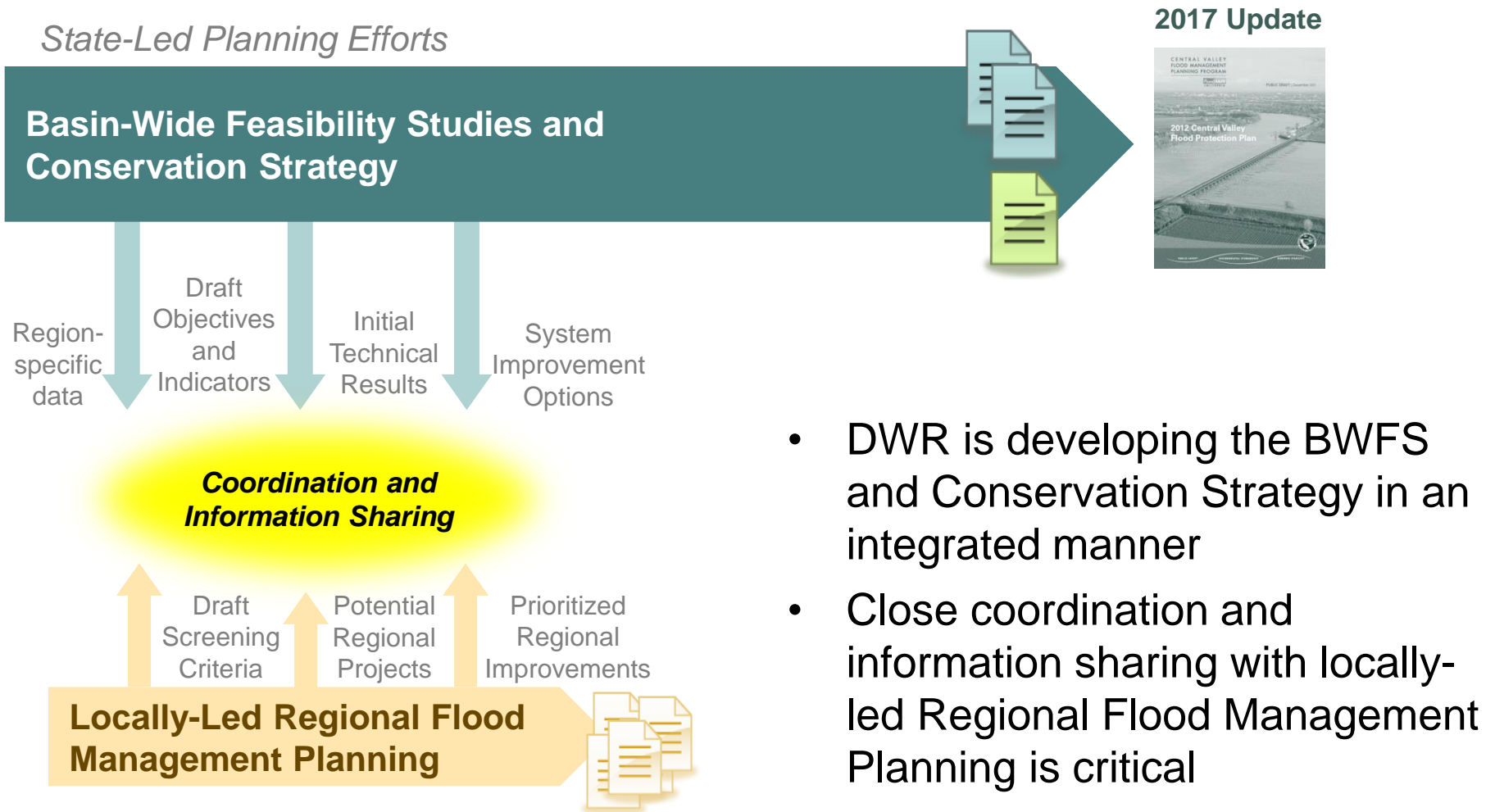
# Integration and Coordination

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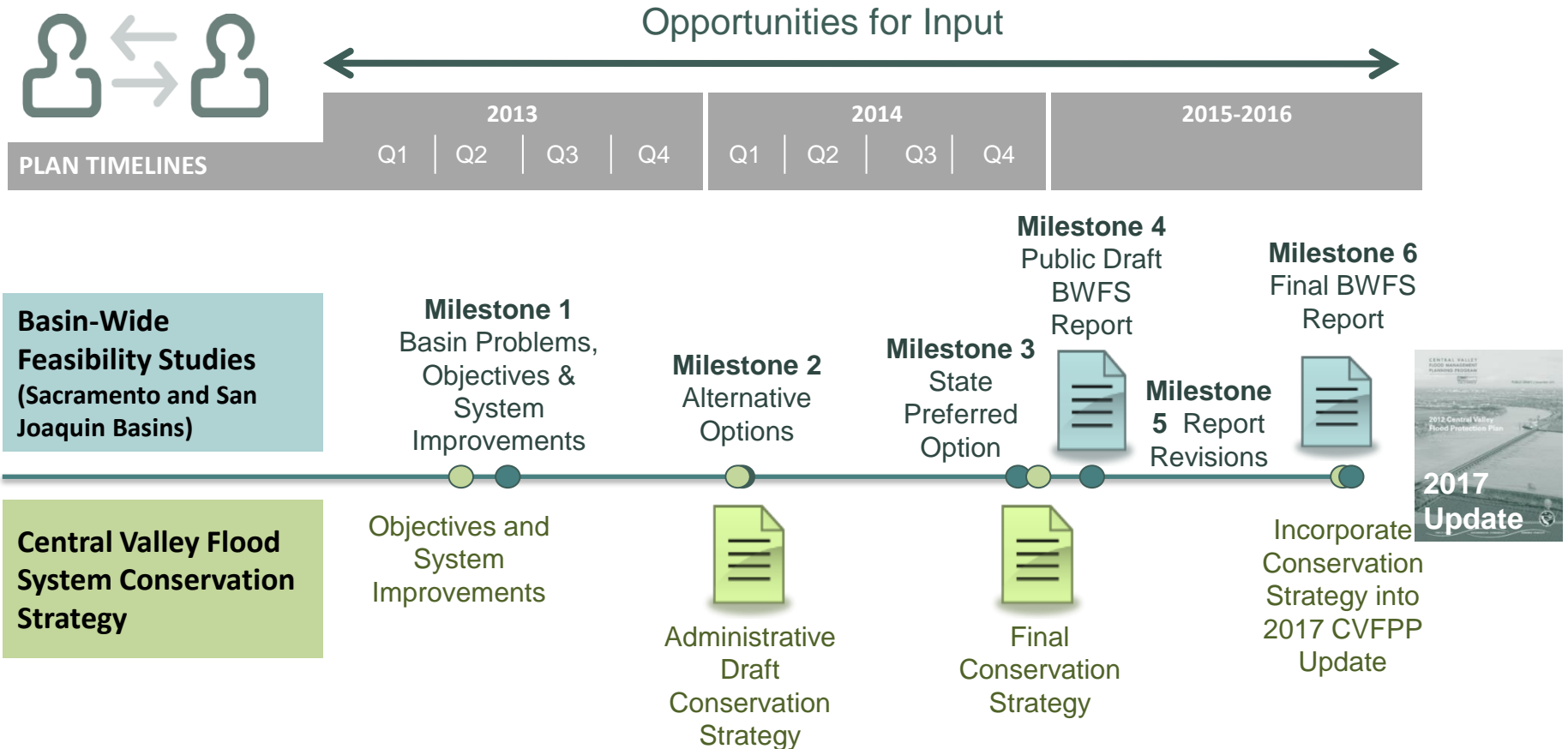
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# Integration and Coordination



# Schedule



# Coordination with Other Projects & Programs

DWR will proactively coordinate with related projects/programs:

- DWR Integrated Water Management programs
- DWR FloodSAFE programs and projects
- Bay-Delta Conservation Plan
- San Joaquin River Restoration Program
- Delta Stewardship Council's Delta Plan
- Ongoing federal cost-shared studies
- Other local/regional/federal integrated water management actions

# Communications and Engagement

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# Communications & Engagement Principles

- Maintain a **flexible** communications and engagement framework
- Recognize the **diverse interests** and significant variation in stakeholders
- Coordinate and **jointly engage** stakeholders in BWFS and Conservation Strategy development
- **Leverage** the use of existing stakeholder forums



# Levels of Engagement to Fit Needs

| Levels of Engagement  | Frequency  | Example Locations/ Venues  |
|---|--|--|
| Summary Information, Fact Sheets, and Orientation Materials           | Available throughout the Planning Process                              | Project Website, Web-based Briefings, FloodSAFE Events, Conferences, Presentations to Elected Bodies   |
| High-level Discussions, Status Updates, Previews of Planning Concepts | On-going, generally at least monthly                                   | Coordination through Central Valley Flood Protection Board Coordinating Committee, Regional Flood Management Planning efforts, and meetings of Planning Partners   |
| Specific Regional Issues and Concerns                                 | Varies, as needed  | <b>Coordination through regular meetings:</b> <ul style="list-style-type: none"> <li>• Regional Flood Management Planning efforts</li> <li>• California Central Valley Flood Control Association and other groups</li> <li>• Forums of other large programs (Bay Delta Conservation Plan, etc.)</li> </ul> |
| Technical Information and Topic-Specific Deliberations                | Approx. Quarterly<br>2 Workshops planned in 2013, additional as needed | <b>Public Workshops (primarily in Sacramento)</b><br><b>Special invitations to technical and subject-matter experts</b>  |

# Agency Coordination

- Different agencies share various roles and responsibilities for flood management in the Central Valley
  - Modifications to the State-federal flood protection system will require coordination with various federal agencies
  - Local and regional maintaining and implementing agencies
  - Coordination with federal and State resource agencies is also needed to develop permitting strategies and mechanisms

# Summary & Recap

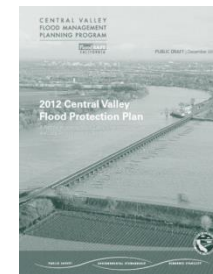


Planning Activities

**State-Led Basin-Wide Feasibility Studies and Conservation Strategy**

**Locally-Led Regional Flood Management Planning**

**2017 Update**



**Other Ongoing Implementation Programs and Activities**

# For More Information

- BWFS: [www.water.ca.gov/cvfmp/cvfmp@water.ca.gov](http://www.water.ca.gov/cvfmp/cvfmp@water.ca.gov)
- Conservation Strategy: [www.water.ca.gov/floodsafe/fessro/info-fessro@water.ca.gov](http://www.water.ca.gov/floodsafe/fessro/info-fessro@water.ca.gov)

The left screenshot displays the 'Central Valley Flood Management Planning (CVFMP) Program' page. It includes a sidebar with links like 'CVFMP Program Home', 'About the Program', and 'Documents'. The main content area features a large image of a flood protection plan and a text block titled 'Orientation Briefings Scheduled for Basin-Wide Flood Management and Conservation Strategy'. The right screenshot shows the 'FloodSAFE Environmental Stewardship and Statewide Resources Office (FESSRO)' page. It includes a sidebar with links like 'Levees and Environmental Engineering', 'Special Projects', and 'Floodway Ecosystem Sustainability'. The main content area features a large image of a river landscape and a text block titled 'FloodSAFE Environmental Stewardship and Statewide Resources Office (FESSRO)'.